

IN THE ABSTRACT:

Please delete the originally filed Abstract and replace it with the following Abstract:

--An apparatus generates additional data used to check whether an encoded digital image is changed or not. The apparatus includes a calculation unit and a recording unit. The calculation unit (a) performs a predetermined calculation using the encoded digital image and confidential information and (b) generates the additional data by applying a one-way function to a result of the predetermined calculation. The recording unit records both the encoded digital image and the additional data on a recording medium. The confidential information includes (a) first information unique to the apparatus, and (b) second information unique to an external apparatus connected to the apparatus.--